

Customer No.: 31561
Application No.: 10/711,236
Docket No.: 11699-US-PA

AMENDMENTS

In The Claims:

1. (currently amended) An apparatus of measuring wastewater concentration for determining discharge rate of wastewater from a wastewater-collecting tank, the apparatus comprising:

a mixing tank, having a first pipeline, for receiving a certain amount of water and a certain amount of wastewater to form a mixture;

a measuring tank, communicated with the mixing tank via the first pipeline, for receiving the mixture in the measuring tank;

a water supply unit having a second pipeline, wherein the water supply unit is communicated with the mixing tank via the second pipeline, for supplying the certain amount of water to the mixing tank;

a wastewater supply unit having a third pipeline, wherein the wastewater supply unit is communicated with the mixing tank via the third pipeline and is communicated with the wastewater-collecting tank for receiving and supplying the certain amount of wastewater to the mixing tank;

a concentration detector, located in the measuring tank, for measuring concentration of the mixture in the measuring tank;

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a pH detector, located in the measuring tank, for measuring the pH value of the mixture in the measuring tank;

a pH-adjusting reagent supply unit, having a fourth pipeline and is communicated with the measuring tank via the fourth pipeline, for providing a pH-adjusting reagent via the fourth pipeline to neutralize the mixture in the measuring tank, wherein if the pH value of the mixture is not between 5 and 9, the pH-adjusting reagent is added into the mixture to adjust the pH value;

a controller, connected electronically with the water supply unit, the wastewater supply unit, and the concentration detector, respectively; for determining the certain amount of water and the certain amount of wastewater, and controlling the concentration detector; and

a monitor, connected electronically with the controller, for displaying operating status of the water supply unit, the wastewater supply unit, and the concentration detector.

2. (cancelled)

3. (cancelled)

4. (currently amended) The apparatus of measuring wastewater concentration as in claim 1, further comprising a stirrer installed in the mixing tank and is connected electronically the control, for mixing thoroughly the certain amount of water and the certain amount of wastewater so as to form the mixture in the mixing tank.

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5. (currently amended) The apparatus of measuring wastewater concentration as in claim 1, further comprising a stirrer, installed in the measuring tank and is connected electronically the control, for mixing thoroughly the mixture in the measuring tank.

6. (original) The apparatus of measuring wastewater concentration as in claim 1, further comprising a first control valve, a second control valve, and a third control valve, wherein, the first control valve is installed on the first pipeline between the mixing tank and the measuring tank, the second control valve is installed on the second pipeline between the water supply unit and the mixing tank, and the third control valve is installed on the third pipeline between the wastewater supply unit and the mixing tank.

7. (original) The apparatus of measuring wastewater concentration as in claim 6, wherein the controller is electronically connected with the first control valve, the second control valve and the third control valve, respectively, and operating status of the first control valve, the second control valve and the third control valve is displayed on the monitor.

8. (currently amended) A method of measuring wastewater concentration for determining a discharge rate of wastewater from a wastewater-collecting tank, the method comprising steps of:

taking a certain amount of the wastewater from a wastewater-collecting tank to be diluted with a certain amount of water so as to obtain a first mixture; and

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measuring a concentration of the first mixture by using a concentration detector and a pH value of the first mixture by using a pH-adjusting reagent supply unit, simultaneously, for calculating a real concentration of the wastewater in the wastewater-collecting tank and then determining a discharge rate of the wastewater from the wastewater-collecting tank;

wherein if the pH value of the first mixture is not between 5 and 9, a pH-adjusting reagent is added into the first mixture to adjust the pH value, and the first mixture is discharged thereafter.

9. (currently amended) The method of measuring wastewater concentration as in claim 8, wherein, if the concentration of the first mixture is measured by the concentration detector as equal to an upper threshold of the concentration detector, the method further comprising steps of:

retaking a the certain amount of the wastewater from the wastewater-collecting tank to be further diluted with a the certain amount of water so as to form a second mixture; and

measuring a concentration of the second mixture by using the concentration detector and a pH value of the first mixture by using a pH-adjusting reagent supply unit, simultaneously., for calculating the real concentration of wastewater in the wastewater-collecting tank and then determining the discharge rate of the wastewater from the wastewater-collecting tank

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wherein if the pH value of the second mixture is not between 5 and 9, the pH-adjusting reagent is added into the second mixture to adjust the pH value, and the second mixture is discharged thereafter.

10. (cancelled)

11. (cancelled)